

# How to change: Fiat Doblo Cargo front suspension strut – replacement guide

 VIDEO TUTORIAL

## Important!

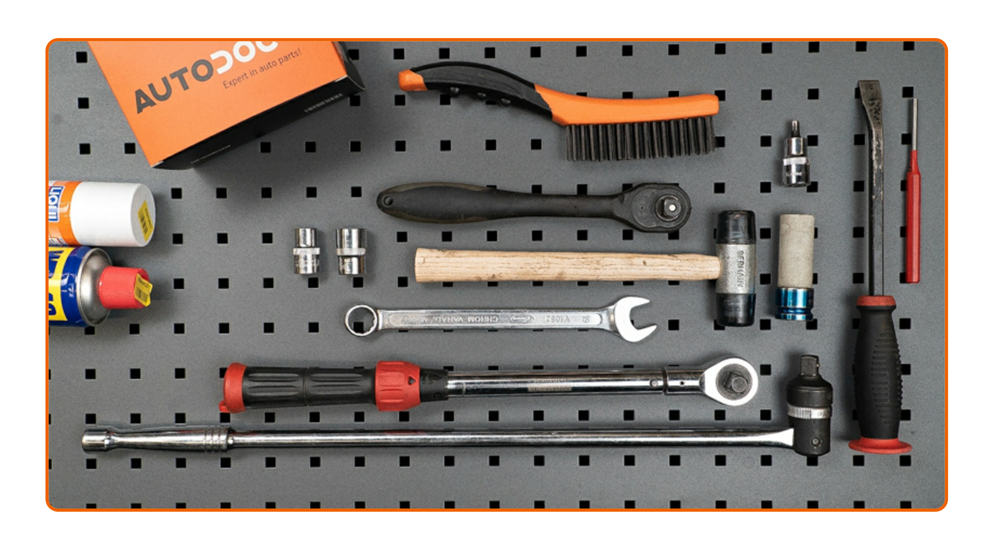
This replacement procedure can be used for:
FIAT DOBLO Cargo (223_) 1.3 D Multijet

---

The steps may slightly vary depending on the car design.




# REPLACEMENT: SUSPENSION STRUT – FIAT DOBLO CARGO. TOOLS YOU'LL NEED:




- Wire brush
- WD-40 spray
- Copper grease
- Drive socket # 13
- Drive socket # 19
- HEX bit No.H6.
- Combination spanner #19
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Pin punch
- Tap wrench
- Rubber mallet
- Crow bar
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock



## Replacement: suspension strut – Fiat Doblo Cargo. Professionals recommend:

- Both shock struts of the front suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right shock struts of the front suspension.
- Please note: all work on the car – Fiat Doblo Cargo – should be done with the engine switched off.

## CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1



Open the bonnet.



2



Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

3



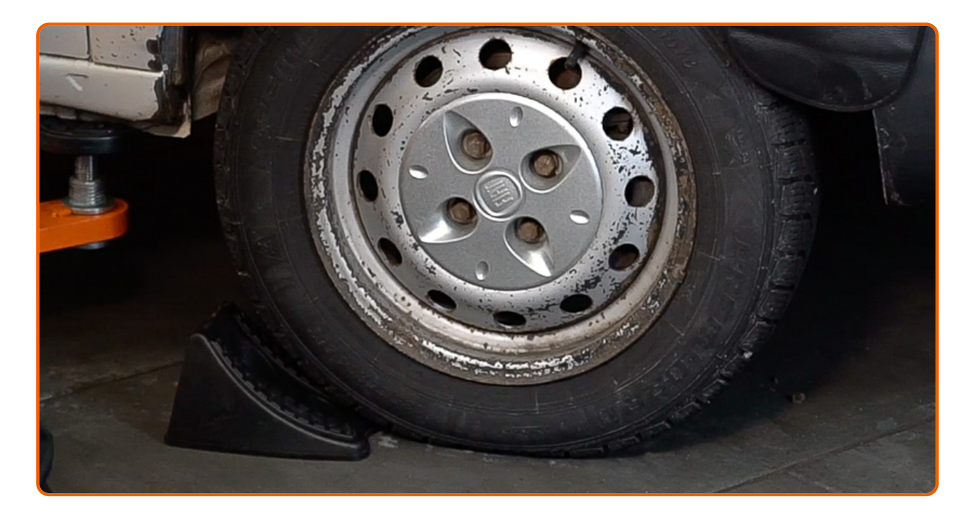
Clean the fasteners of the shock strut upper mount. Use WD-40 spray.

4



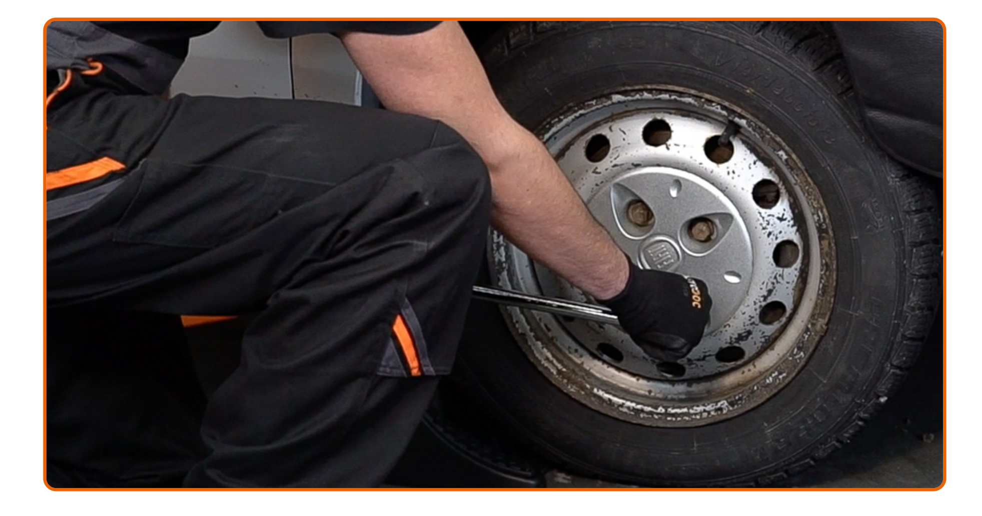
Loosen the upper fastener of the shock strut mount. Use a drive socket #13. Use a ratchet wrench.

5



Secure the wheels with chocks.

6



Loosen the wheel mounting bolts. Use wheel impact socket #17.

7




Raise the front of the car and secure on supports.

8



Unscrew the wheel bolts.

## Replacement: suspension strut – Fiat Doblo Cargo. AUTODOC recommends:

- To avoid injury, hold up the wheel when unscrewing the bolts.

9



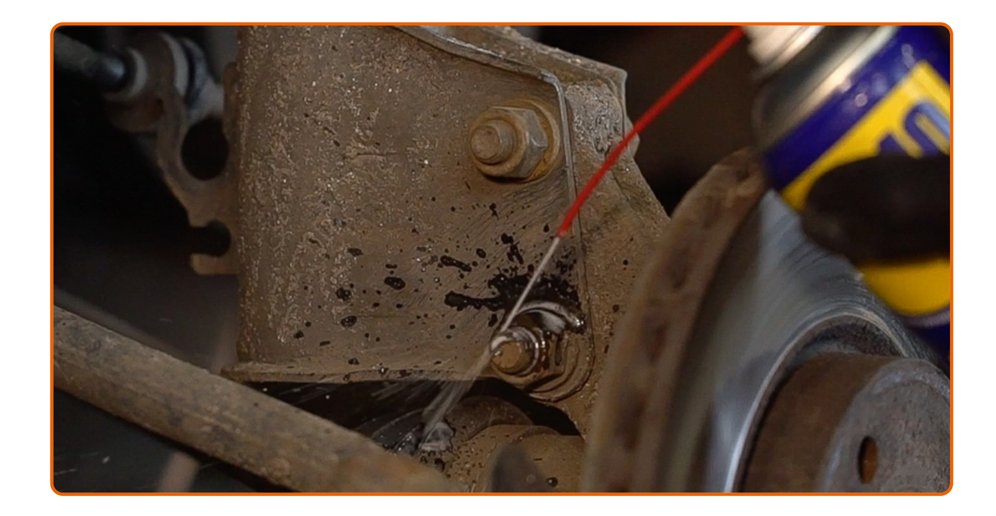
Remove the wheel.



10

Remove the brake hose.

11



Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.

12



Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #19. Use a drive socket #19. Use a tap wrench.

13




Prop up the steering knuckle. Use a hydraulic transmission jack.

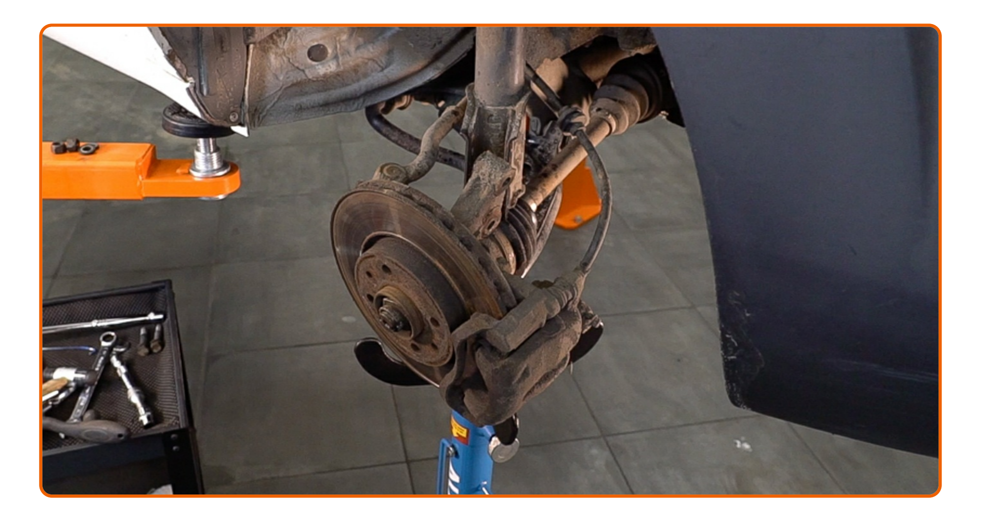
14




Remove the fastening bolts. Use a pin punch. Use a rubber mallet.

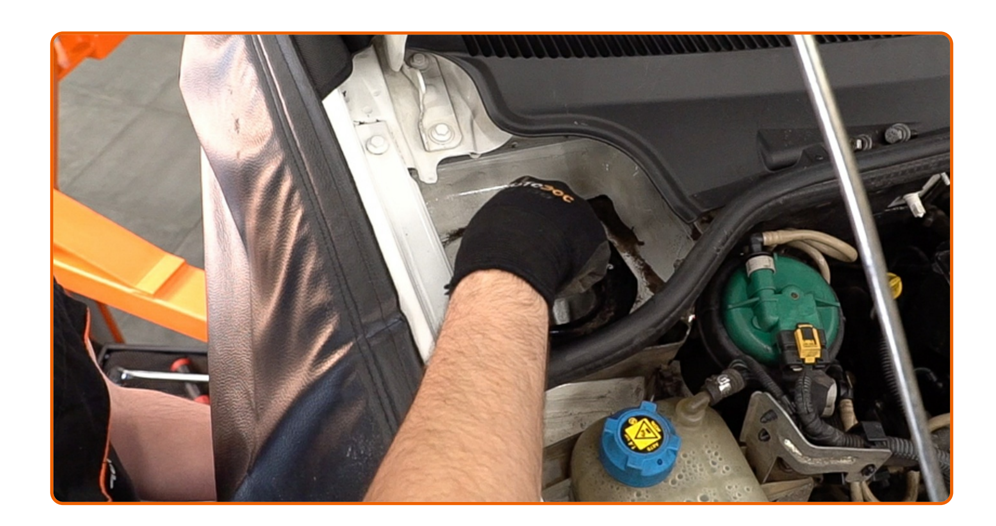


15



Disconnect the steering knuckle from the shock absorber strut.

16



Unscrew the top fastening of the shock strut mount.

## AUTODOC recommends:

- Important! Hold the suspension strut while unscrewing the fastening bolts. Fiat Doblo Cargo

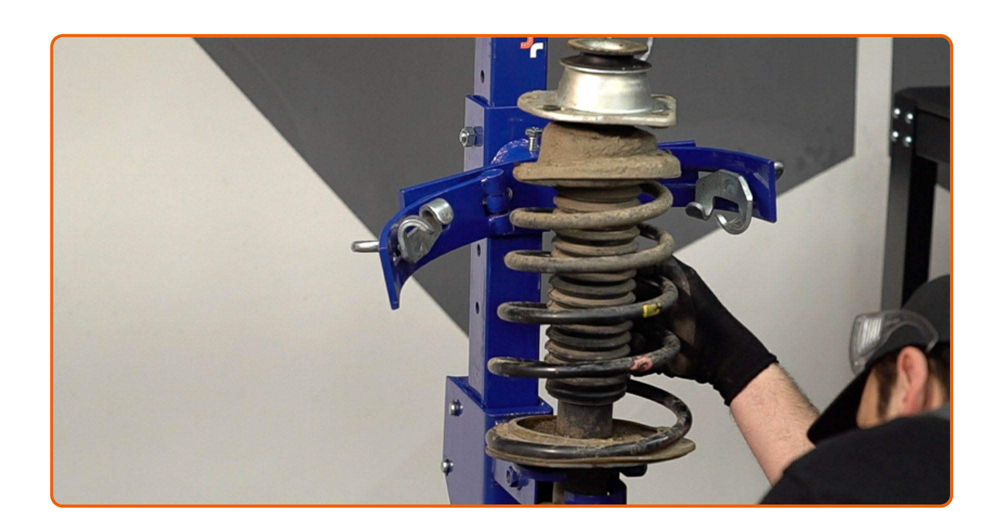


17




Remove the suspension strut.

18

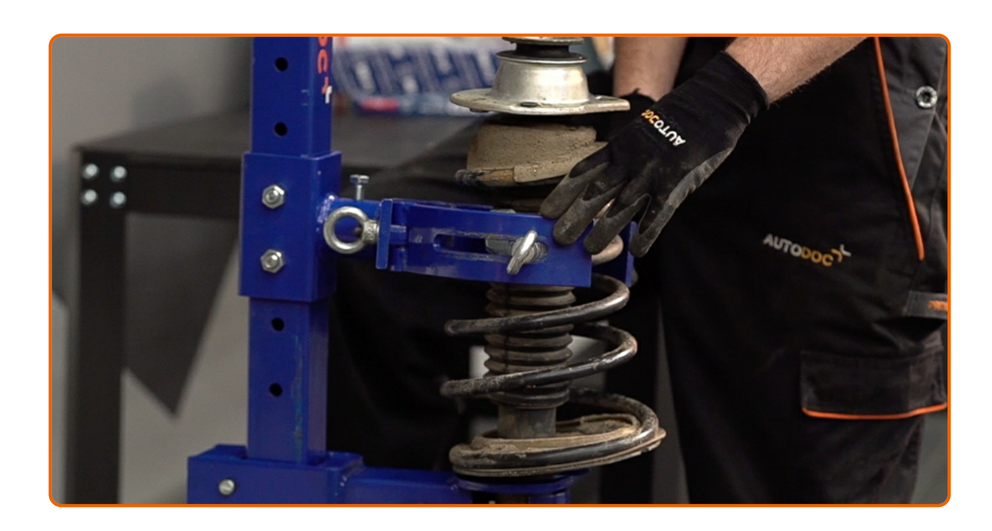


Set the shock absorber strut on the spring compressor tool.

## Replacement: suspension strut – Fiat Doblo Cargo. AUTODOC experts recommend:

- Note that when using a spring compressor, spring coils need to be securely gripped, compressing the spring on the opposite sides.
- Ensure the correct position of the spring in the retainer.
- Make sure that the spring coils tightly entered the lock handles.

19



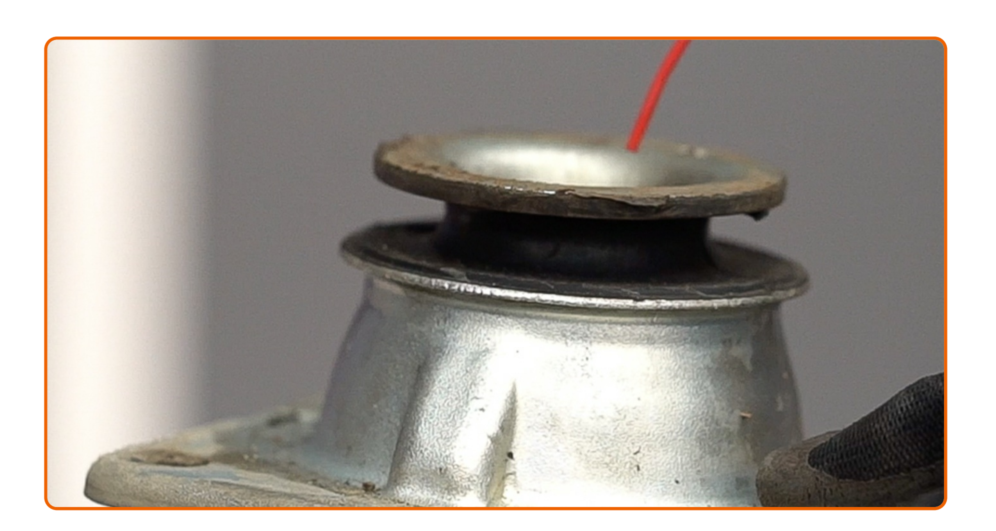

Compress the spring.

20




Remove the shock strut mount cap.

21



Clean the shock absorber rod. Use WD-40 spray.

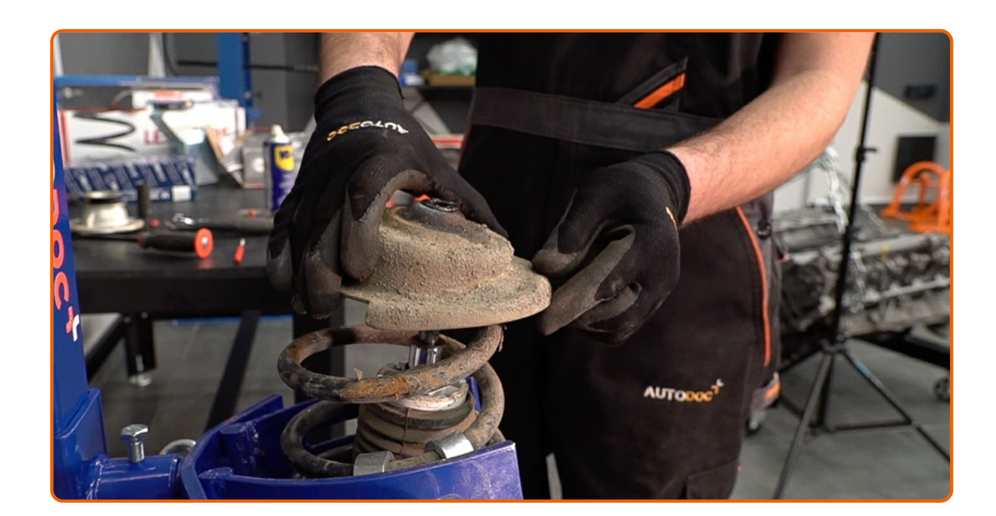


22



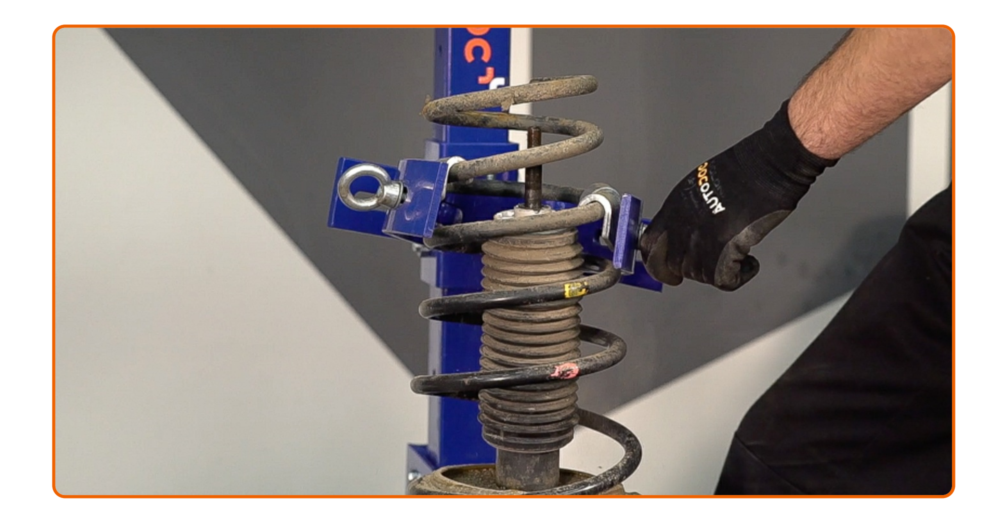
Remove the strut piston rod nut. Use a drive socket #19. Use HEX No.H6.

23



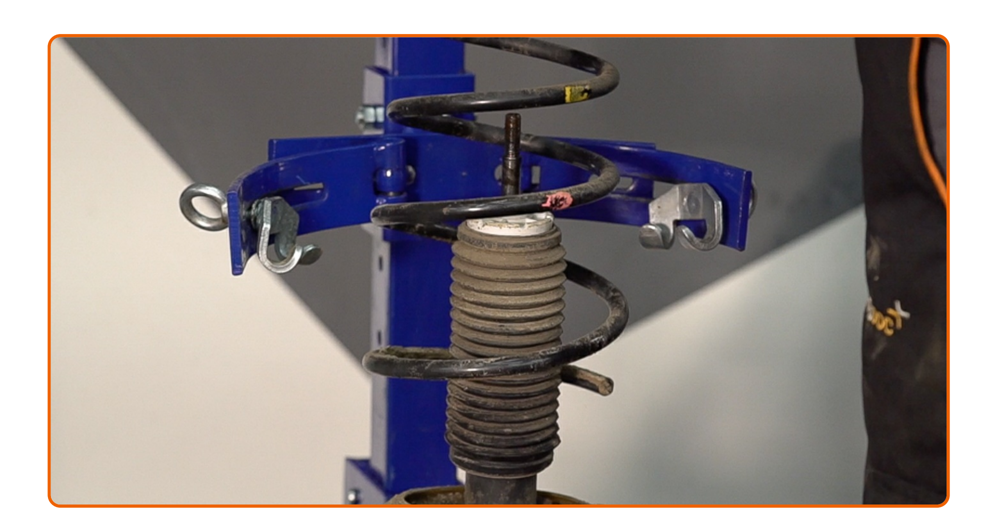
Remove the top strut mount.

24



Release the coil spring.

25



Remove the spring.

26



Remove the shock absorber dust cap and the bump stop.

27

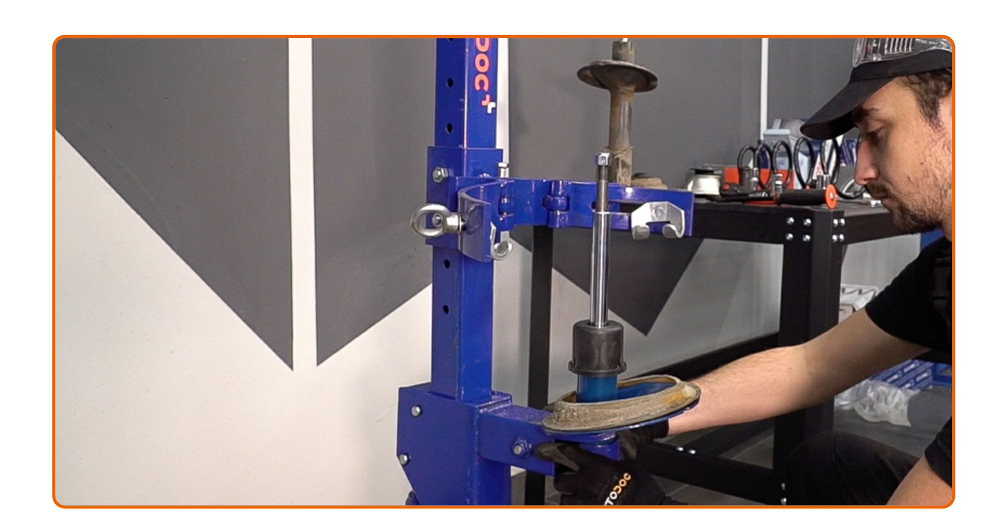


Remove the old shock absorber from the hydraulic coil spring compressor.

## AUTODOC recommends:

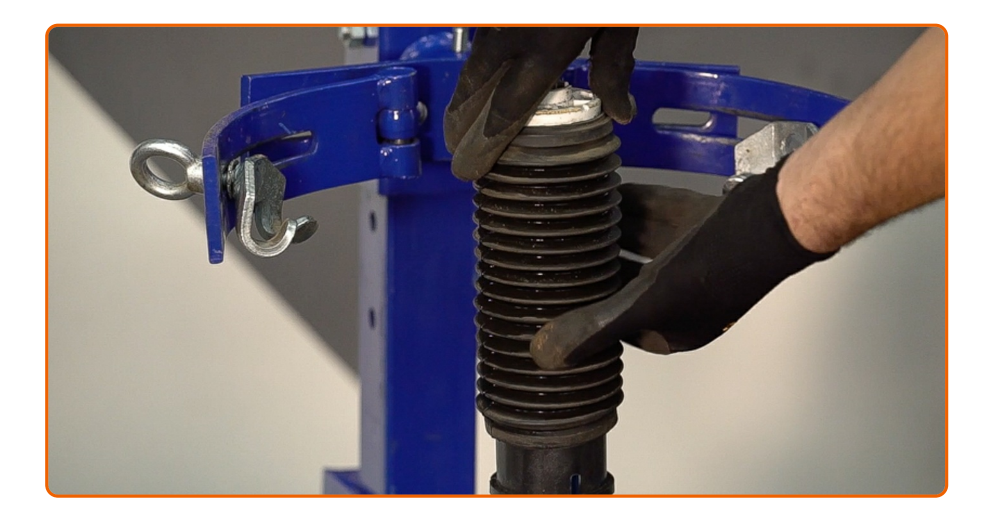
- Replacement: suspension strut – Fiat Doblo Cargo. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.
- Before installing a new shock absorber you should pump it manually 3-5 times.

**28**



Install the new shock absorber on the hydraulic coil spring compressor.

29



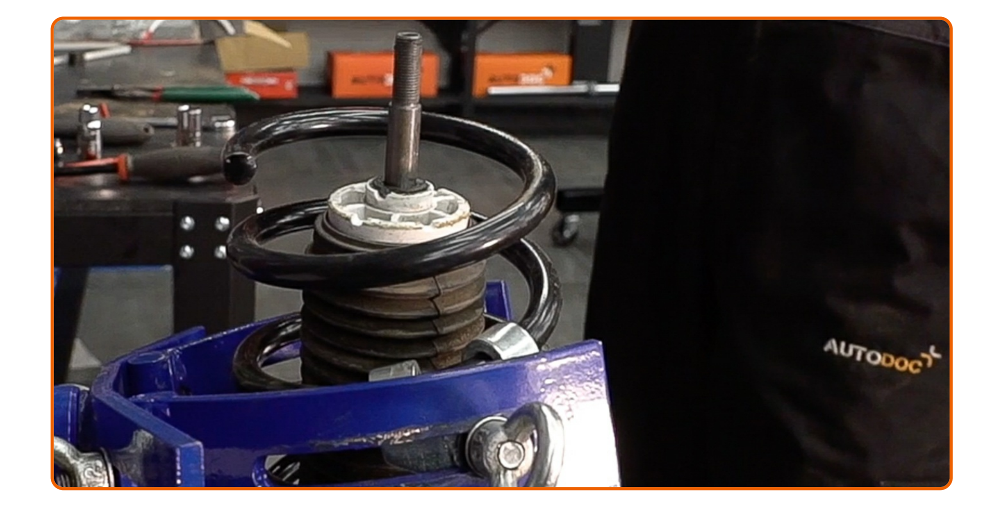
Install the dust sleeve and the bump stop on the new shock absorber.

30



Install the spring on the shock absorber.

31



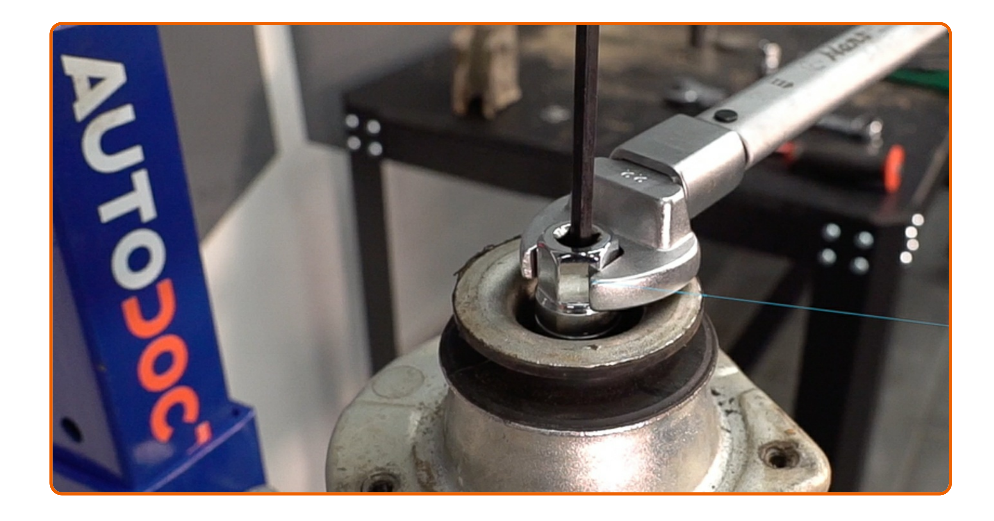

Compress the spring.

32




Install the upper strut mount and the strut mount bearing.

33




Tighten the shock strut piston rod nut. Use a drive socket #19. Use HEX No.H6. Use a torque wrench. Tighten it to 60 Nm torque.

## Replacement: suspension strut – Fiat Doblo Cargo. Tip:

- Check to make sure the spring is positioned correctly. Avoid its misalignment.

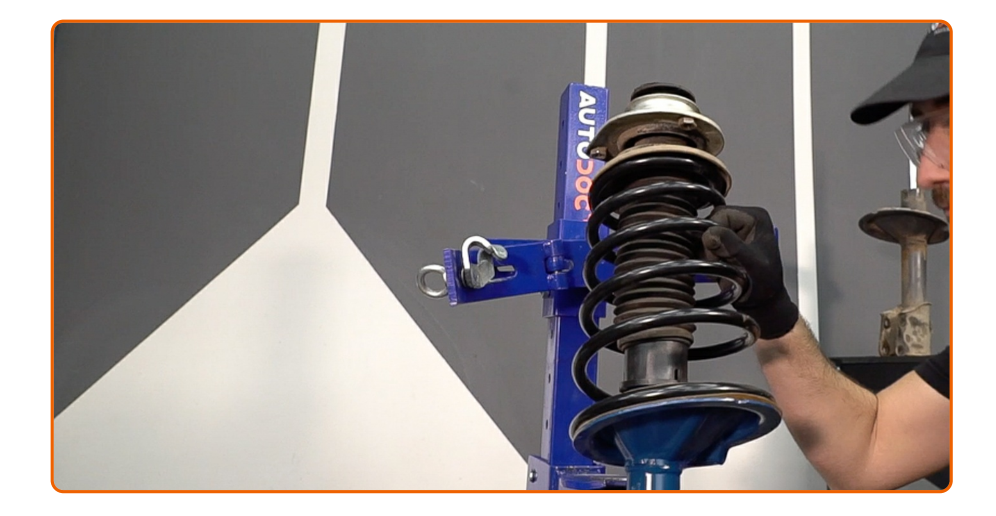
34



Decompress the spring.

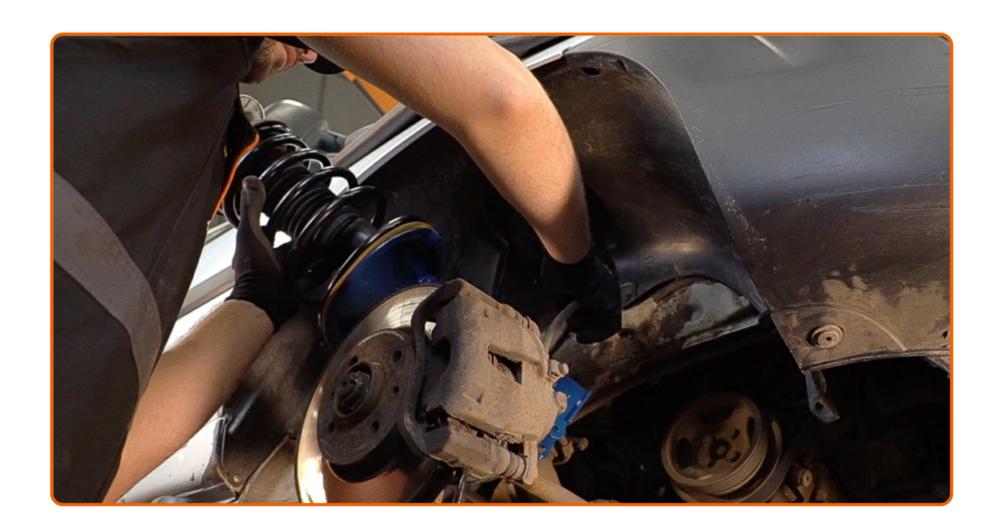


35



Remove the assembled shock strut.

36



Install the shock strut into the wheel arch.

37



Screw the top fastening of the shock strut mount. Do not tighten it.

## AUTODOC recommends:

- Important! Hold the suspension strut while screwing in the fastening bolts. Fiat Doblo Cargo

38



Treat the shock strut mounting seat on the steering knuckle. Use a wire brush. Use WD-40 spray.

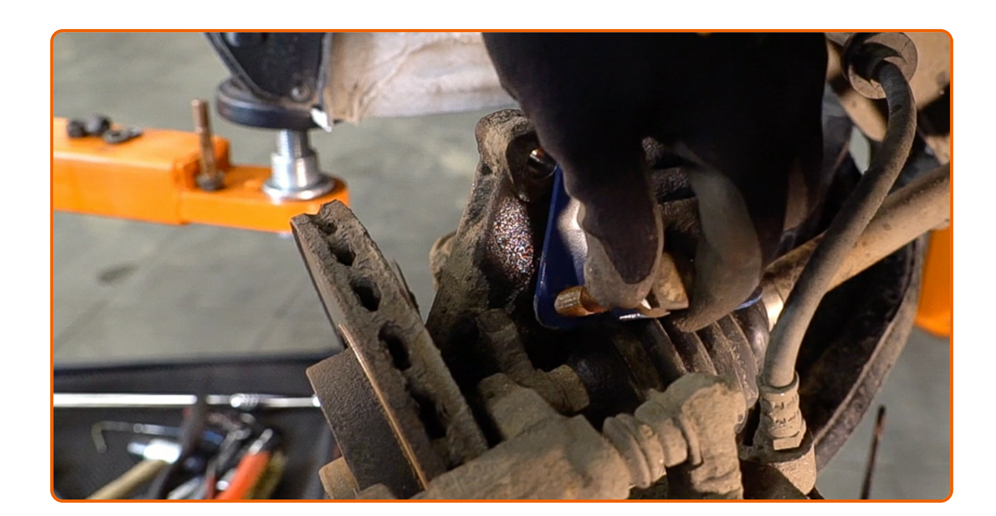


39



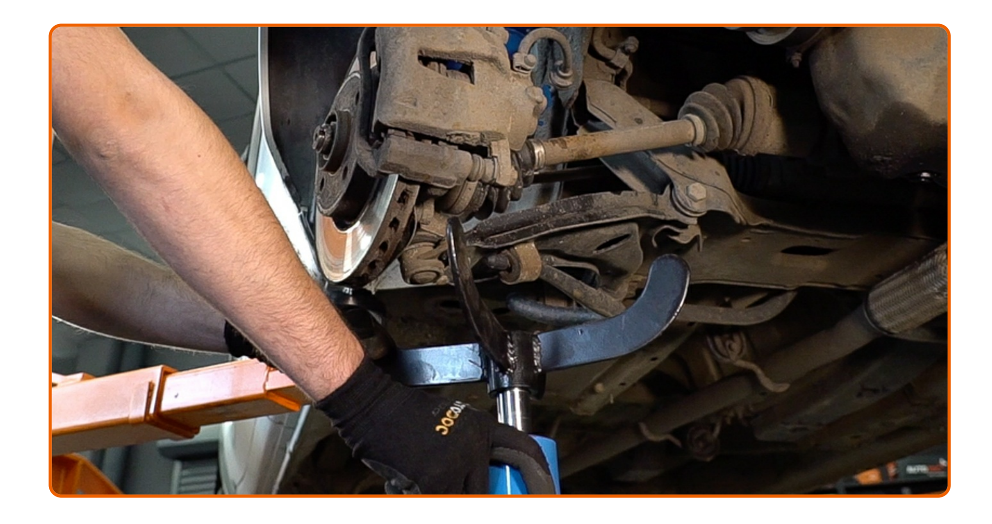
Fix the shock absorber strut on the steering knuckle. Use a crowbar.

40



Install the fastening bolts.

41



Remove the support from under the steering knuckle.

## Replacement: suspension strut – Fiat Doblo Cargo. Tip from AUTODOC experts:

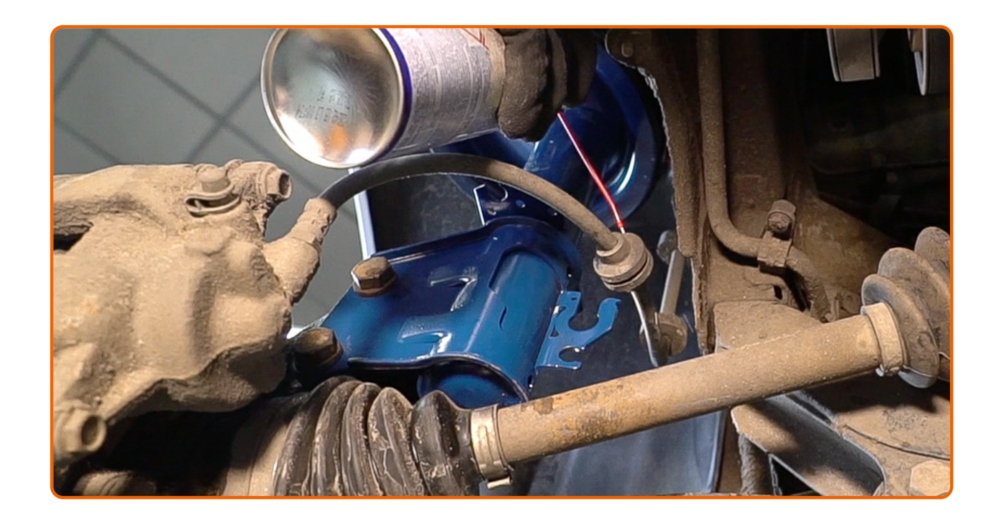
- Lower the hydraulic transmission jack smoothly, without jerks, to avoid damaging assemblies and mechanisms.

42



Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a drive socket #19. Use a combination spanner #19. Use a torque wrench. Tighten it to 83 Nm torque.

43



Treat the brake hose fasteners. Use WD-40 spray.

44



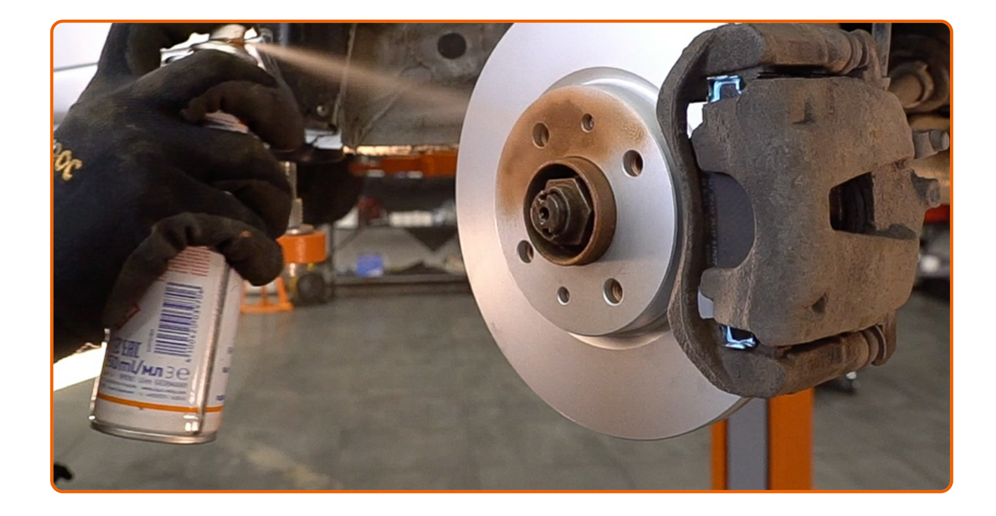
Fasten the brake hose on the strut.

45



Treat the shock strut fasteners. Use copper grease.

46



Clean the wheel rim mounting seat. Use a wire brush. Treat the contacting surface. Use copper grease.

47



Install the wheel.

## AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Fiat Doblo Cargo

48



Screw in the wheel bolts. Use wheel impact socket #17.

49



Tighten the upper fastener of the shock absorber strut mount. Use a drive socket #13. Use a torque wrench. Tighten it to 32 Nm torque.

50



Treat the fasteners of the shock strut mount. Use copper grease.

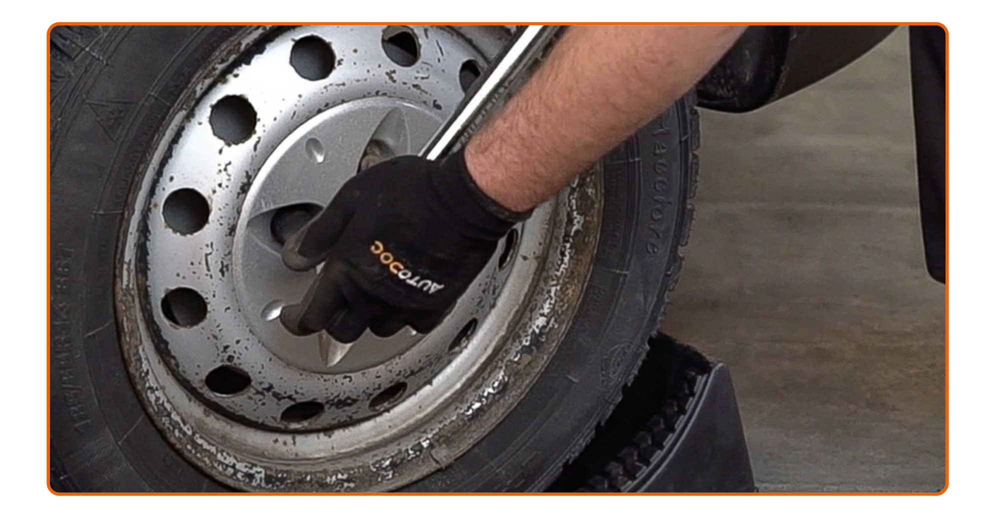
51



Install the shock strut mount cap.




52



Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 120 Nm torque.

53



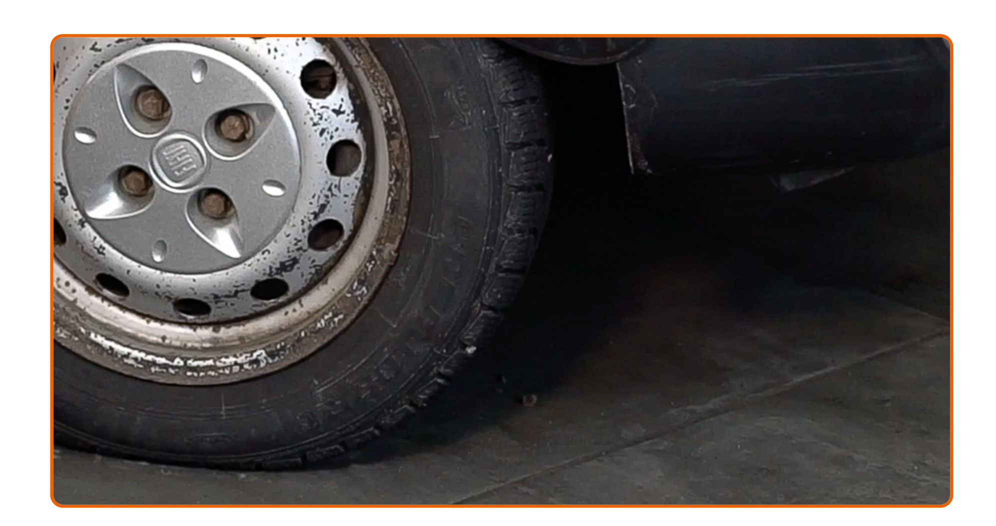
Remove the fender protection cover.

54



Close the hood.

55



Remove the jacks and chocks.

# DID YOU FIND THESE INSTRUCTIONS HELPFUL?

YES

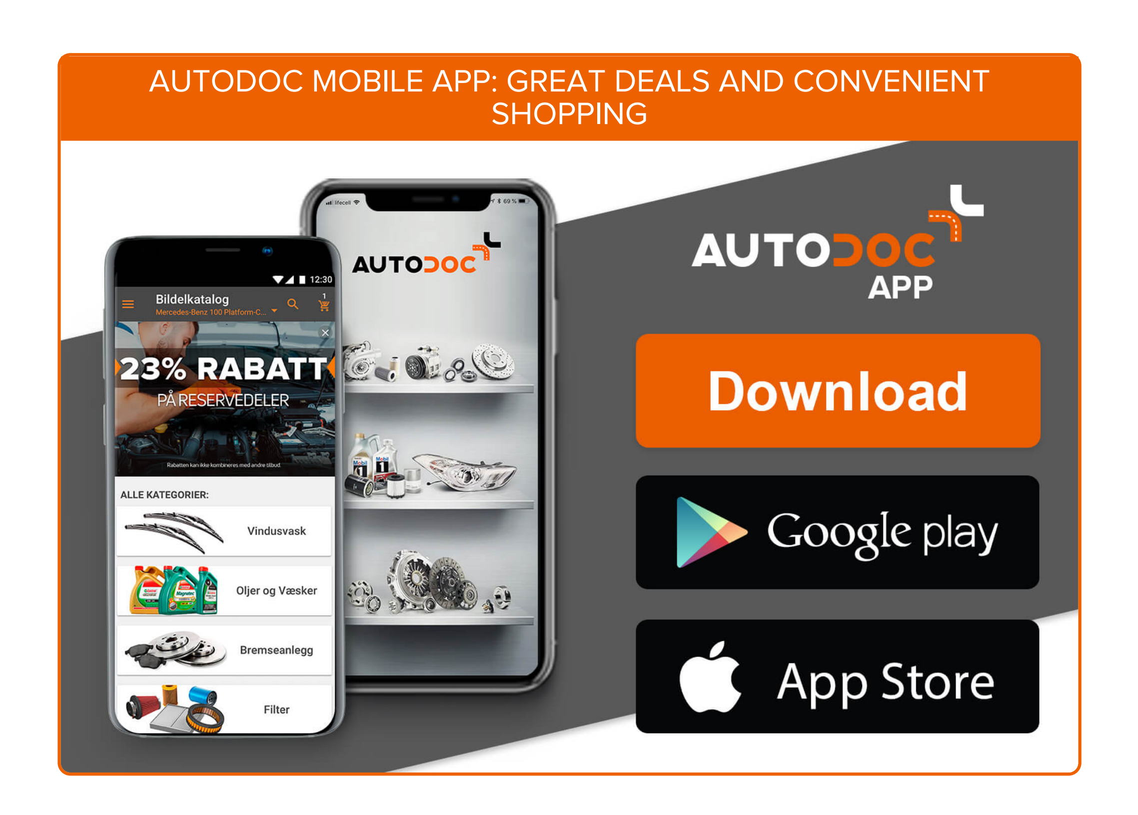
NO

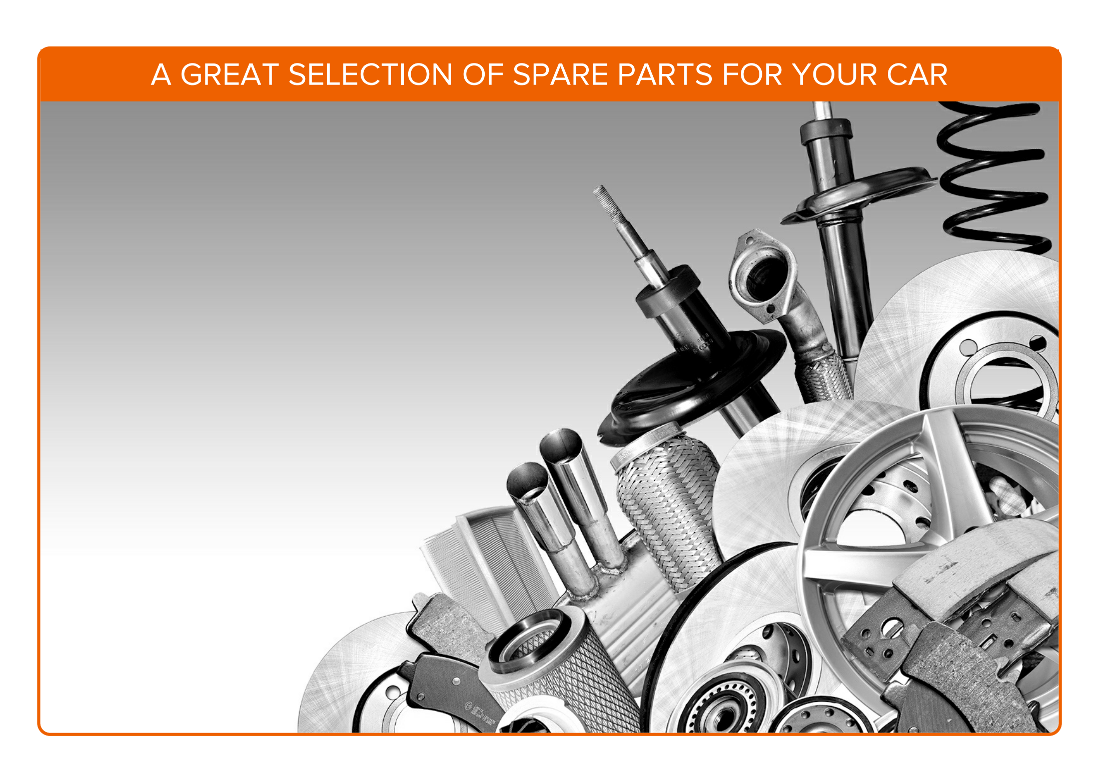


BECOME A MEMBER OF AUTODOC CLUB!



# AUTODOC — TOP QUALITY AND AFFORDABLE CAR PARTS ONLINE






BUY SPARE PARTS FOR FIAT


SHOCK ABSORBERS: A WIDE SELECTION

## CHOOSE CAR PARTS FOR FIAT DOBLO CARGO




## SHOCK ABSORBERS FOR FIAT: BUY NOW



## SHOCK ABSORBERS FOR FIAT DOBLO CARGO: THE BEST DEALS & OFFERS




## Disclaimer:

The document contains only general recommendations that may be useful for you when you perform repair or replacement work. AutoDoc shall not be liable for any loss, injury, damage of property occurring in the repair or replacement process due to incorrect use or misinterpretation of the provided information.

AutoDoc shall not be liable for any possible mistakes and uncertainties in this guide. The information provided is for information purposes only and cannot replace advice from specialists.

AutoDoc shall not be liable for incorrect or hazardous usage of equipment, tools and car parts. AutoDoc strongly recommends to be careful and observe the safety rules when performing repair or replacement works. Remember: usage of low quality auto parts does not guarantee you the appropriate level of road safety.